

Middle School Initiative

**PART I
COVER SHEET**

CAP 2 SEMESTER 2 WEEK 1

COURSE: Rickenbacker Aerospace Education, Achievement 4

LESSON TITLE: Weather Systems and Changes

LENGTH OF LESSON: 50 Minutes

METHOD: Lecture - Performance

REFERENCE(S):

1. *Aerospace Dimensions*, Module 3, Chapter 4, 2000
2. Study Guide, 2000
3. Leader Guide, 2000
4. Resource Guide, 2000

AUDIO/VISUAL AIDS/HANDOUTS/ACTIVITY MATERIAL(S): As Needed

COGNITIVE OBJECTIVE: To learn how to identify additional weather systems and how they affect us.

COGNITIVE SAMPLES OF BEHAVIOR: Upon completion of this chapter, the cadet should be able to:

1. Define an air mass and identify air mass characteristics.
2. Define a front and describe the types of fronts.
3. Describe hurricanes, thunderstorms, and tornadoes.
4. Identify the stages of a thunderstorm.
5. Outline safety precautions for thunderstorms and tornadoes.

AFFECTIVE OBJECTIVE: N/A

AFFECTIVE SAMPLES OF BEHAVIOR: N/A

Middle School Initiative**PART II
TEACHING PLAN****Introduction**

ATTENTION: Today, you will continue your Aerospace Education studies in *Aerospace Dimensions*, Module 3 with Chapter 4 - Weather Systems and Changes.

MOTIVATION: There are more weather systems than we have studied so far. How many additional types of systems can you name? Do you how to describe them or what they do? Today, we will learn the answers to these questions and more.

OVERVIEW: During this period, you will continue your aerospace studies with Weather Systems and Changes.

Body

NOTE: The instructor should use the lesson plan in the Leader Guide, Pages 17-20. The cadets should use the Study Guide, Page 20. A materials list is located in the Resource Guide, Page 49.

Conclusion

SUMMARY: We have studied the material in *Aerospace Dimensions*, Module 3, Chapter 4.

REMOTIVATION: Now you understand how the different weather systems and the changes they cause affect our lives.

CLOSURE: Next week, we use the questions in the Study Guide to quiz each other. **Any questions? See you next week!**

Middle School Initiative

**PART III
LESSON REVIEW**

LESSON OBJECTIVE(S): Today, we learned how to:

1. Define an air mass and identify air mass characteristics.
2. Define a front and describe the types of fronts.
3. Describe hurricanes, thunderstorms, and tornadoes.
4. Identify the stages of a thunderstorm.
5. Outline safety precautions for thunderstorms and tornadoes.

LESSON QUESTIONS: Contained in *Aerospace Dimensions*, Module 3, Chapter 4.